

Abstract

5 A method for coating a porous polyurethane resin
substrate with an aromatic isocyanate coating composition
is provided comprising the steps of (i) providing a porous
substrate of a polyurethane foam resin comprising at least
one surface upon which the aromatic isocyanate coating
composition is to be applied; (ii) applying at least one
10 coating of a primary layer to the substrate surface, the
primary layer comprising an aqueous solution of a compound
that includes at least one -OH reactive group in its non-
aqueous, dry state, and capable, upon drying, of forming a
self-supporting, continuous film on the substrate surface
15 at room temperature; (iii) optionally subjecting the
applied primary layer to forced drying conditions at a
temperature below the softening point of the porous
polyurethane resin substrate; and (iv) after allowing the
primary layer to substantially dry, applying a secondary
20 layer comprising an aromatic isocyanate compound to the
primary layer to form a continuous, film-forming coating on
the substrate surface, preferably one having the property
of being water-impermeable or water-impermeable and water
vapor-permeable.